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4445

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GUIDELINES AS DESCRIBED IN SECTION  
3.3(a), EXECUTIVE ORDER 12356.

Form 504  
DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

State: Terr. Hawaii

11-5613

DESCRIPTIVE REPORT.

Hydro. Sheet No. 4445

LOCALITY:

Oahu - NW Coast

Mokuleia to Waialua Bay

1924

CHIEF OF PARTY:

E. R. Hand

~~CONFIDENTIAL~~

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DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The finished Hydrographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. <sup>4</sup> 4445

~~Island of Oahu~~, Terr. Hawaii.

State . . . . .

Oahu

General locality . . . Northwest coast . . . . .

Locality . . . Mokuleia to Waialua Bay. . . . .

Chief of party . . . Eoline R. Hand. . . . .

Surveyed by . . . " " " . . . . .

Date of survey . . . Sept. - Oct. 1924. . . . .

Scale . . . . . 1:5000 . . . . .

Soundings in . . . . . feet. . . . .

Plane of reference . . . MLLW . . . (gauge at Haleiwa (Waialua Bay))

Protracted by D. K. Kahana . . . Soundings in pencil by D. K. Kahana and Robert Reid

Inked by . . . . . Verified by . . . . .

Records accompanying sheet (check those forwarded):

Des. report, ☒ Tide books, ☒ Marigrams, ☒ Boat sheets,

☒ Sounding books, ☐ Wire-drag books, ☐ Photographs.

Data from other sources affecting sheet . . . . .

Remarks:

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DUPLICATE

# DESCRIPTIVE REPORT

to accompany hydrographic sheet No. 4, Mokuleia to Waialua Bay, Oahu, T.H.  
surveyed September - November 1924 Eoline R. Hand, C. of Party

For a thorough understanding of this report the preceding three should be considered. The physical characteristics of the shoreline embraced within the above limits are shown in careful detail on the sheet complementary to this, topographic "D". Waialua Bay is the best landing, and the one west of Jodo Mission is nearly as good, though smaller. But, with local knowledge, Kaiaka Bay offers very good and very extensive landing possibilities, even at such times as sea conditions appear very dubious from the shore. Between the two patches of rocks ought not to be attempted, except in very quiet water: on the Kaiaka Point side back in (if sea conditions render this maneuver necessary) in a SE direction, so as to pass midway between the point, "Bay" and the bunch of awash rocks: once inside the water will usually be found so quiet, even when breaking heavily at the point and over the outer shoals, that landing can be made either on sand beach or smooth rock ledges at base low cliff anywhere from sigs. "Bay" to "Mar". I wish to draw special attention to the other or west side of Kaiaka Bay. Here, between that long line of awash rocks that trends NNE and SSW and the word "breaks" I show on topographic sheet, directly north of sigs. "Mar" and "Pin", a vessel could enter on a range with mill stack and something on the shore near lagoon mouth that is east of "Mar" and carry the depth of forty feet right up to five hundred, or even four hundred, yards of the beach. Now, because of the protecting breakers outside on either hand she could discharge a great number of landing parties simultaneously in all directions: being comparatively quiet water they would not only be able to utilize the good landing shore I have mentioned between stas. "Bay" and "Mar" but westward a little ways, among the awash rocks. A twin screw would attempt this with even better chance of success than a single screw, for it could back out easily keeping on a range, and knowing this would doubtless attempt to go in closer than would a single screw.

I have carefully examined that reef line to the westward of this bay: it is positively continuous, as far as signal "Do", and there are no lagoons behind it, as is known by sounding test from a skiff: it is rarely as much as three feet. Fair landings can be made at sigs. "Do" and "Lamp" if not too much sea, and having due regard to awash rocks. West of this would be too foul to attempt, except at sig. "Mist" at extreme edge of sheet: here is a good landing. These landings I have mentioned owe their virtue to breakers on either hand, which modifies the sea between in a manner I have previously mentioned. Only through the deep entrance at Kaiaka Bay is protection reached by actually betting behind a shoal spot.

As to landing possibilities at places where I have put no landing notes I refer to my statement in next to last paragraph of report for Sheet 3.

Depth curves are not drawn as they would confuse the military authorities, who desire them drawn for every five feet.

Bottom is mostly rocky: some sand and coral: due to survey difficulties along this coast not much bottom was taken and recorded.

*Eoline R. Hand*  
Eoline R. Hand,  
Lt. USCGS.

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# Statistics Sheet No. 4

Date	Letter	Vol.	positions	soundings	miles	stat	Vessel
Sept 12	a	1	24	24	1.0		SKIFF
" 15	b	1	44	44	1.7		"
" 16	a	1	76	381	7.75		Whaleboat
" 17	b	1	52	336	5.2		"
" 18	c	1	56	382	6.0		"
" 19	d	1	48	285	5.0		"
" 23	e	1	27	97	1.0		"
" 24	f	1	50	261	3.0		"
" 27	g	1	26	95	2.0		"
" 29	h	1	17	80	1.5		"
" 29	h	2	16	65	1.5		"
" 30	j	2	38	171	4.1		"
Oct 1	k	2	49	245	5.1		"
" 2	l	2	45	208	3.2		"
" 3	m	2	106	919	6.3		"
" 4	n	2	97	566	7.6		"
" 9	o	3	80	429	7.6		"
Total			851	4588	66.85		







ADDRESS THE DIRECTOR  
U. S. COAST AND GEODETIC SURVEY

AND REFER TO No.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY  
WASHINGTON

August 4, 1925.

REPORT ON VERIFICATION

HYDROGRAPHIC SHEET

No. 4445

The sounding record was poorly kept.

The poor protracting was probably due to the protractor being out of adjustment.

The time intervals were not carefully adhered to in the plotting of the soundings.

No curves were penciled on this sheet.

Sig. Off and Root were changed to agree with the boat sheet.

The rocks shown on smooth sheet were taken from the boat sheet and topographic sheet.

There are insufficient bottom characteristics given for some of the work.



H. R. Edmonston.



DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY  
WASHINGTON

September 15, 1925.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4445

Mokuleia to Wailue Bay, Oahu, T. Hawaii

Surveyed in 1924

Instructions issued by U.S. Army

Chief of Party, E. R. Hand.

Surveyed by E. R. Hand.

Protracted by D. K. Kahana.

Soundings plotted by D. K. Kahana and R. Reid.

1. Considering the difficulties under which the work was done the records were satisfactory and well kept, except for the omission of bottom characteristics and several instances of confusion in noting times of soundings.
2. The plan and character of the development conforms to the requirements of the General Instructions.
3. The sounding line crossings are adequate, considering the uneven character of the bottom.
4. The information is sufficient for drawing the usual depth curves.
5. The usual field plotting was done by the field party. The protracting was found to be so defective that all of it that was done with the steel protractor had to be done over in the office. The errors were systematic, amounting frequently to 50 meters, and undoubtedly were due to the use of a protractor out of adjustment.

Time intervals were not carefully adhered to in plotting the soundings.



6. A reef extends along the shore of the western half of this sheet. Rock awash symbols were uniformly used to indicate the reef, whereas it is believed that sunken rock symbols only should have been used instead.
7. The junction with the adjoining sheet is satisfactory.
8. The survey constitutes a very complete leadline development of the area included by it. Dragging would undoubtedly reveal less water on some of the coral shoals.
9. The character and scope of the surveying are excellent and the field drafting poor.
10. Reviewed by E. P. Ellis, September, 1925.